

### **ABSTRACT**

A porous crystalline material (ITQ-21) which in its calcined form has the chemical composition



wherein (n + m) is at least 5, X is a trivalent element, Z is Ge, Y is at least one tetravalent element other than Ge, and the ratio is m/(n+m) is 0.0 to 0.5, and displays the X-ray diffraction values given in Table 1, and a method of preparation of the material in the presence of fluoride ions and using N(16)-methylsparteinium as structure director agent; the material being useful in its acid form and in bifunctional catalyst form in processes of catalytic cracking, hydro-cracking and alkylation of aromatics.